US-PAT-NO: 6578088
DOCUMENT-IDENTIFIER: US 6578088 B2
TITLE: Automatic address distributing system

Detailed Description Text - DETX (11):

   Reference numeral 108 is a name server (also known as a DNS server) using a DNS (Domain Name Service), one of name services for controlling relations between terminal addresses and host names and converting a terminal address into a corresponding host name or vice versa. In this way, a terminal connected to the network can be identified by using a name referred to hereafter as a host name, a kind of meaningful character information, instead of using an address which is formed as a string of alphanumeric characters.

Related Application Filing Date - RLFD (1):

   19970827

Current US Original Classification - CCOR (1):

   709/245

Current US Cross Reference Classification - CCXR (2):

   709/201

Current US Cross Reference Classification - CCXR (3):

   709/203

Current US Cross Reference Classification - CCXR (4):

   709/223

Current US Cross Reference Classification - CCXR (5):

   709/224

Host name: a terminal connected to the network can be identified by using a name referred as a host name

Domain name: identification of server

Brief Summary Text - BSTX (138):

means for causing the processor to acquire information data corresponding to an <u>ID of an event and terminal</u> information; and

Detailed Description Text - DETX (12):

The terminal information holding section 2d-3 holds band (channel) information selected by the user and currently received by the receiving unit 2a, standard time (terminal time) which is a base of an operation of the receiving <u>terminal 2, identification information (terminal ID) which is proper to and assigned to each receiving terminal</u> 2 at the time of manufacture, and information (terminal information) indicative of a location of the receiving terminal 2, etc., registered by the user. The section 2d-3 may hold a return destination information such as an <u>IP</u> address in order to receive a return from the broadcasting station 1.

Detailed Description Text - DETX (13):

Upon receiving the event ID from the event acquisition section 2d-1, the event generation section 2d-2 reads terminal information such as the currently-selected channel information, the <u>terminal ID of the receiving terminal</u> 2, the present time (terminal time) and location, and the return destination (self-terminal) out of the event acquisition section 2d-2, and the event <u>ID is added to the terminal</u> information and then sent it to the network access device 2c.

Detailed Description Text - DETX (15):

Upon receiving the event <u>ID and terminal</u> information from the event occurring unit 2d, the information acquisition section 2c-1 supplies them to the server selection section 2c-2.

Detailed Description Text - DETX (16):

As illustrated in FIG. 6, the server selection section 2c-2 has a table for storing channel information and address information of a broadcasting station server corresponding thereto. The section 2c-2 retrieves the destination information, referring to the table of FIG. 6, based on the channel information of the terminal information supplied from the information acquisition section (2c-1), and supplies the destination information to the server access section 2c-3, together with the event <u>ID and terminal</u> information.

Detailed Description Text - DETX (17):

The "destination information of broadcasting station server" controlled by the table of FIG. 6 has only to be information necessary for making a connection with the broadcasting station server 1c through the communication line 4 or address information necessary for transferring information or an <u>IP</u> address required for accessing to an internet.

Detailed Description Text - DETX (18):

The server access section 2c-3 accesses to the broadcasting station server 1c selected via the communication line 4 and sends the event <u>ID and terminal</u> information thereto. The section 2c-3 also receives information from the server 1c via the communication line 4 and then supplies it to the display unit 2b.

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Detailed Description Text - DETX (24):

If the broadcasting station server 1c is notified of the event <u>ID and terminal</u> information by accessing thereto from the network access unit 2c through the communication line 4, it retrieves the program database 1b using channel information, <u>terminal time and event ID contained in the terminal</u> information as keys. The program database 1b stores in advance information data to be extracted when the channel information, <u>terminal time and event ID</u> are designated. If the broadcasting station server 1c retrieves the program database 1b and reads information data corresponding to the designated event, it transmits the information data to the receiving terminal 2, designated by return destination information included in the terminal information, through the communication line 4.

Detailed Description Text - DETX (27):

If the event generation section 2d-2 is notified of the event <u>ID, it reads channel information, terminal time, terminal ID, terminal</u> location, return destination (self-terminal) information, etc. of the currently-received program from the terminal information holding section 2d-3 (step S3), and notifies the network access unit 2c of the read <u>terminal information and event ID</u>. The flow advances to step S10 of FIG. 9.

Detailed Description Text - DETX (28):

If the information acquisition section 2c-1 of the network access unit 2c receives the event <u>ID and terminal</u> information from the event occurring unit 2d (step S10 of FIG. 9), the server selection section 2c-2 selects the broadcasting station server 1c to be accessed from the table of FIG. 6 on the basis of the channel information contained in the terminal information to obtain destination information of the server 1c (step S11).

Detailed Description Text - DETX (29):

The server access section 2c-3 accesses to the selected broadcasting station server 1c based on the destination information obtained from the server selection section 2c-2 and transmits the event <u>ID and terminal</u> information through the communication line 4 (step S12). The flow goes to step S20 of FIG. 11.

Detailed Description Text - DETX (30):

Upon receiving the event <u>ID and terminal</u> information from the network access unit 2c of the receiving terminal 2 through the communication line 4 (step S20 of FIG. 11), the broadcasting station server 1c of the broadcasting station 1 retrieves the program database using them as keys (step S21) and reads information corresponding to the event <u>ID and matching the terminal</u> information of the receiving terminal 2 of the event notification originator (step S22).

Detailed Description Text - DETX (42):

If the event acquisition section 2d-1 detects that an event occurs, it notifies the event generation section 2d-2 of an ID of the detected event and clicked positional information (step S41). Being notified of the event ID and positional information, the section 2d-2 reads channel information, <u>terminal time, terminal ID, terminal</u> location, return destination (self-terminal) information, etc. of a currently-received program from the terminal information holding section 2d-3 (step S42), and notifies the network access unit 2c of the read <u>terminal information, event ID</u> and positional information (step S43).

Detailed Description Text - DETX (43):